Gas Conversion Instructions

For models:

H34D

Warning: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- *Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.*
- What To Do If You Smell Gas:
  - *Do not try to light any appliance.*
  - *Do not touch any electrical switch; do not use any phone in your building.*
  - *Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.*
  - *If you cannot reach your gas supplier, call the fire department.*
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

- *Check local codes and read all instructions prior to conversion.*
- *Leave this manual with the owner.*

Table Of Contents

General Information 2
Parts list 2
Conversion
Before you begin 3
Install or Remove the Air Inlet Screw 3
Converting the Burner Orifice 3
Converting the Pilot Assembly 3
Converting the Main Gas Control Regulator 4
Checking the Gas Pressure 4
Adjusting the Pilot Burner 4
Operation 5

General Information

This gas conversion kit contains the necessary components for field conversion of an approved Montigo fireplace from Natural Gas (NG) to Liquid Propane (LP).This kit is approved for use with the following Direct Vent (top and rear vent versions) model(s):

- H34D

The conversion of this appliance must conform with local codes or, in the absence of local codes, with the **American** National Fuel Gas Code, *ANSI Z223.1*, or the **Canadian** Installation Code, *CAN / CGA*

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with this kit.

Parts List

Quantity	Description
1	Pilot Orifice
1	Air Inlet Screw
1	Burner Orifice
1	Hi/Lo Regulator Kit for the gas control valve
1	Label for rating plate indicating conversion
1	Label for gas control valve indicating conversion

Gas Conversion Instructions

Conversion

CAUTION - Before you begin:

1. Shut off gas at the shut-off valve and disconnect the electrical supply (if used).
2. Remove the glass door as shown in the installation instructions and remove the logs. Flip down or remove the lower trims.

Install or Remove the Air Inlet Screw:

3. Locate the two air inlet holes on the burner tube underneath the right side of the burner tray. On Propane models, both air inlet holes must be open, and on Natural Gas models the air inlet screw, provided in the conversion kit, must be installed.
4. When converting to the desired fuel, install or remove the supplied air inlet screw using a 3/16 allen key. The air inlet screw is accessable on the right side of the burner tray as shown in figure 1.

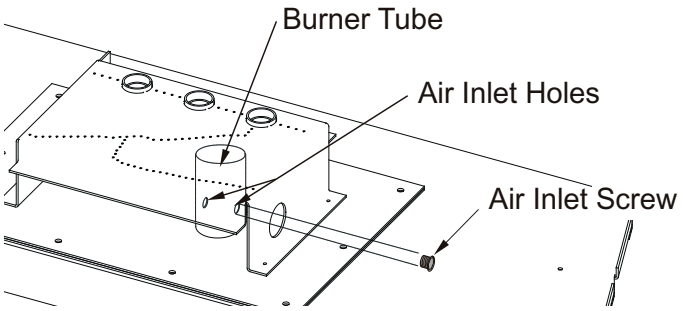


Figure 1. *Installing or Removing the Air Inlet Screw.*

Converting the Burner Orifice:

6. Disconnect the valve from its valve bracket by removing the 4 screws that hold the valve in place, and disconnect the valve asssembly from the pan base by spinning off the union as shown in figure 2a. The valve assembly will drop out of the way, allowing access to the coupling.

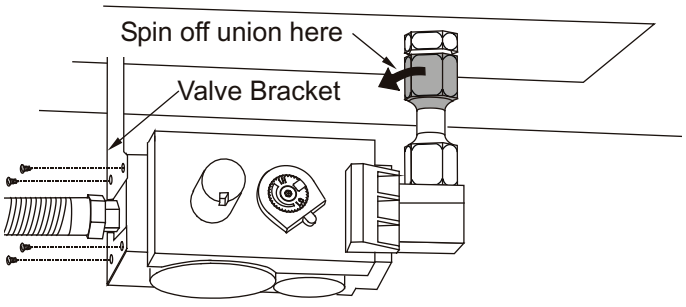


Figure 2a. *Converting the Burner Orifice.*

7. Unscrew the coupling assembly from the pan base. The burner orifice is located at the top end of coupling. Unscrew it and install the new orifice from the conversion kit to convert to the new gas, as shown in figure 2b. Re-install all of the gas fittings.

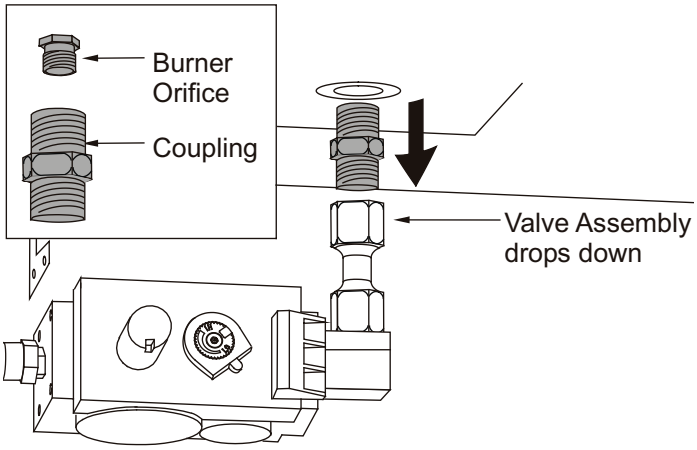


Figure 2b. *Converting the Burner Orifice.*

Converting the Pilot Assembly:

8. Remove pilot hood/ orifice cap by pulling it off the pilot assembly. The cap will snap off with slight pressure; the orifice must be removed with an allen key. *(See Figure 4)*

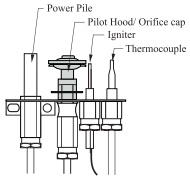


Figure 3. *The Pilot Assembly.*

Gas Conversion Instructions

9. Install the new orifice from the conversion kit to convert to the pilot to the new gas. Tighten the orifice securely with an allen key. Re-attach the pilot hood, making sure the notch in the hood lines up with the tab on the pilot assembly.

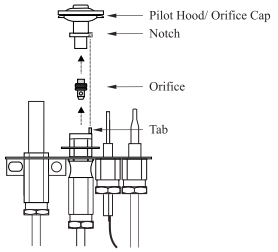


Figure 4. *The Pilot Assembly, with cap off. The pilot hood will snap off; the orifice must be removed with an allen key.*

Main Gas Control Regulator:

10. The SIT Hi/Lo gas control valve supplied with this appliance has a removable regulator. To replace it, remove the three screws as shown in Figure 6, and install the new regulator supplied with this kit.

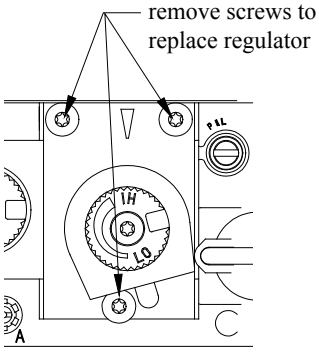


Figure 6. *Replacing the regulator on the Sit Nova 820 gas control valve.*

11. The label (part no. LB0205/LB0206) indicating that *the fireplace* has been converted for use with a different gas must be placed on the fireplace rating plate over top of the existing fuel type marking.

The label (part no. LB0207/LB0206) indicating *who* converted the appliance must be filled out and placed on the base pan, directly under the gas valve.

Also place the label indicating that the *control valve* has been

Checking the Gas Pressure

To check the Inlet and Manifold gas pressures, a Water Column Pressure Gauge with 5/16" dia. tubing can be used. To test the Manifold Pressure, loosen the screw shown in Figure 7. Attach the gauge to the Manifold Pressure Test Connection and open the gas shut-off valve. The tubing must be tight in the connection to prevent gas leaks. Measure the Manifold Pressure and compare the value against the chart below.

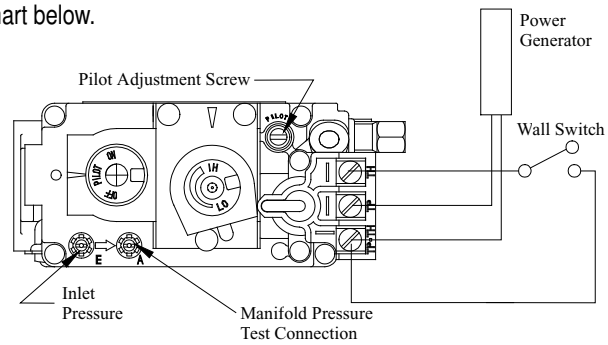


Figure 7. ***Sit Nova 820*** *series gas valve.*

	Natural Gas	Liquid Propane
Manifold Pressure (min.)	3.5" W.C.	10" W.C.
Inlet Pressure (min.- max.)	5.5" - 14" W.C.	11" - 14" W.C.

" W.C. = inches water column

Turn off the fireplace and close the shutoff valve. Remove the test gauge. **Re-tighten the test connection screw to prevent gas leakage.**

Repeat the procedure for the Inlet Pressure.

If the pressure readings are not within the limits set out, contact the factory. If the pressure readings are correct, ensure that both test connection screws are tightened securely, to prevent a gas leak.

Pilot Burner Adjustment

1. Locate the Pilot Adjustment Screw on the gas control valve. *(See figure 7)*

2. Adjust pilot screw to provide properly sized flame as shown in *figure 8).* To increasethe flame, turn the screw counterclockwise. To decrease the flame, turn it clockwise. The flame should impinge on the thermocouple and thermopile.

3. After installing or servicing, leak test using a soap solution with main burner turned on. Coat pipe and tubing joints, gasket etc. with soap solution. Bubbles indicate leaks. Tighten any areas where the bubbles appear until the bubbling stops completely.

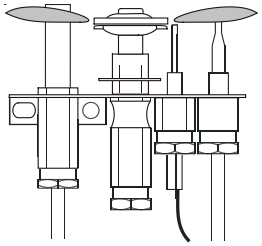


Figure 8. *Pilot Burner*

Operating Instructions

For Your Safety - READ BEFORE LIGHTING:

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

What To Do If You Smell Gas:

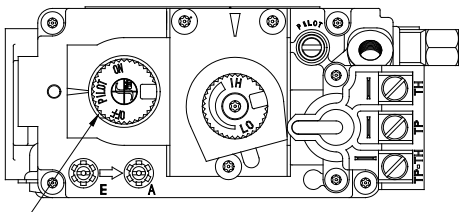
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system, and any gas control which has been under water.

Lighting Instructions:

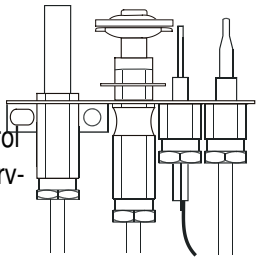
1. **STOP!** Read the safety information above on this label.
2. Flip down lower trims.
3. Push in gas control knob and turn clockwise to "OFF."
4. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Locate pilot burner *(See illustration at right.)* and follow steps below.
6. Turn knob on gas control counterclockwise to "PILOT."



Gas Control Knob
(Shown in "Pilot" postion.)

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not

7. Push in gas control knob completely and hold. Light with Piezo Igniter button. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release the knob and it will pop back up. Pilot should remain lit. If it goes out repeat steps 3 through 8.
   - If knob does not pop up when released. Stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.



8. Push in gas control knob and turn counterclockwise to "ON."
9. Flip up lower trim.
10. Turn on remote switch to ignite fire.

To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Flip down lower trim.
3. Push in gas control knob slightly and turn clockwise to "Off". Do not force.
4. Flip up lower trim.

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